Cyber Assistant Interface Control Document (ICD)

Document No. TEGE-TEDS-DOC-CYBR1ICD-R01C00

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Preface

This document represents the ELC Lite 4.0 Interface Control Document describing the external interface mechanisms between the Tax Exempt Determination System (TEDS) Cyber Assistant and TEDS.

Executive Summary

The Tax Exempt Determination System (TEDS) Cyber Assistant application is a software tool that organizations applying for tax-exempt status can use to complete the Internal Revenue Service (IRS) Form 1023. The primary goal of TEDS Cyber Assistant is to reduce the submission errors of that form, thereby improving the Exempt Organizations (EO) determination process.

This document describes the detailed external interface mechanisms of the TEDS Cyber Assistant Release 1 application to the TEDS application. One of the requirements for TEDS Cyber Assistant Release 1 was to print properly formatted 1-dimensional and 2-dimensional bar codes, along with the printed complete 1023 forms, thus allowing the application to be scanned and processed properly by the IRS Cincinnati Submissions Processing Center (CSPC). This document will describe in detail the technical specifics required to meet the TEDS and TEDS Cyber Assistant external interface requirement.

Section 1.   Introduction

1.1   Purpose and Scope of Document

The purpose of this document is to describe the external interface design for the TEDS Cyber Assistant Release 1 application as required by the TEDS application for proper scanning and processing of a submitted paper Form 1023.

The document will describe in detail the interface boundary with TEDS and TEDS Cyber Assistant, which begins with the rendering of the 1023 form and schedules to PDF format within the TEDS Cyber Assistant application. At the end of the interface boundary, the TEDS Receipt and Handling module will receive the manually-submitted Form 1023 application, and receipt handlers at CSPC will prepare, scan, and process the application into the TEDS document repository.

1.2   Document Maintenance

This document will be maintained in accordance with the TEDS Cyber Assistant Configuration Management Plan. The owner of the document is the Tax Exempt/Government Entities (TE/GE) organizational body of the IRS.

Section 2.   Interface Overview

The interface between TEDS and TEDS Cyber Assistant Release 1 consists of the printed form 1023, schedules, attachments, and 1 and 2-dimensional bar codes. The interface, barcodes, and printed forms will be used by CSPC, using TEDS to electronically scan and process form 1023 applications into the TEDS document repository and system.

The TEDS Cyber Assistant application is a public-facing web-based application that allows an organization to complete the 1023 form and schedules using a wizard-like interface that guides the applicant through the entry process.

TEDS functionality includes:

- Scanning of Form 5307 application packages, receipt, handling, and automatic case closure of application packages

- Accessibility of case information in TEDS to Customer Account Services (CAS)

- Generation of determination letters for cases that have been automatically closed in TEDS

- Interfacing with the EP/EO Determination System (EDS) and the Letter Information Network User System (LINUS)

- Limited Quality Assurance (QA) capabilities

2.1   Interface Purpose

The purpose of the TEDS Cyber Assistant to TEDS interface is to allow the TEDS Receipt and Handling application to electronically scan the entire Form 1023 application, forms, schedules, attachments, and barcodes, into the TEDS document repository and system.

2.2   Interface Description

The TEDS Cyber Assistant Print Controller software module is the component responsible for the rendering of the Form 1023, schedules, attachments, other forms, and bar codes into a physically-printed format. The Print Controller component is a member component of the TEDS Cyber Assistant web-based, externally-hosted application that facilitates the entry and printing of the entire 1023 application.

The start of the interface boundary is the point at which an applicant organization applying for tax-exempt status completes the Form 1023 entry process, and then executes the printing functionality within the system. The Print Controller module then renders:

- All forms and user- supplied form data

- Control pages for external hardcopy attachments

- Machine-readable 1 and 2-dimensional bar codes containing attachment identifiers

- Form page user data

- An inventory sheet list of all pages of the application into an electronic PDF document that the applicant can then send to their printer for hard copy

TEDS, an IRS internal Tier B application, is the end point of the interface boundary. Mailed Form 1023 applications are received at CSPC, and then prepared for scanning into the TEDS repository. TEDS provides programmatic form data field scanning, and 1 and 2-dimensional bar code scanning. During the scanning process, automated screening of the documents may detect quality errors that a CSPC operator can address with a quality inspection of the scanned images.

2.3   Interface Overview Diagram
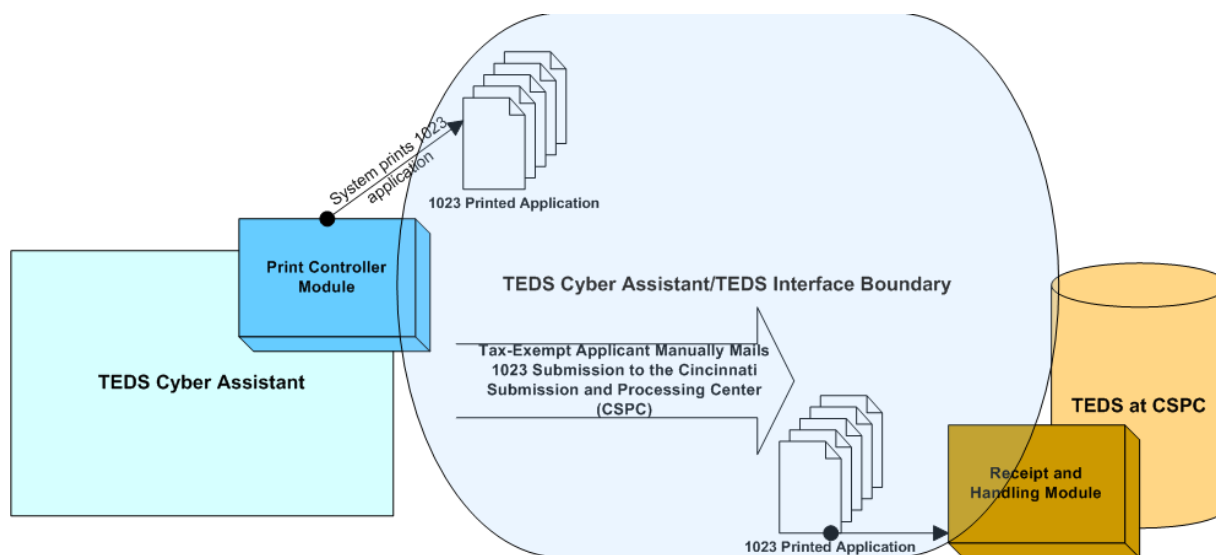
Figure 2-1. TEDS Cyber Assistant High Level Interface

2.4   TEDS Cyber Assistant Print Controller Component Description

The TEDS Cyber Assistant Print Controller component is responsible for the rendering of the complete Form 1023 application into a PDF electronic format. The Print Controller will allow two types of renderings:

- A draft Form 1023 that is not for submission and can be printed at any time during the application entry process,

- A final Form 1023 rendering that is for submission and is only allowed once the 1023 application has been entirely completed and correctly validated by the system

The forms 1023, 2848, 5768, 8821 and 1023 Schedules A-H are printed as exact replicas of the IRS paper forms themselves, with the exception that each form page has a 2-dimensional PDF417 bar code printed at the bottom of each page. The 2-D bar code contains an XML document that contains the page's line items, 1023 XML schema field names, and the user entered data. The figure that follows is an example of what a 1023 Cyber Assistant rendered form page would look like.

Figure 2-2. Form 1023 pg. 2 Sample

```xml
<?xml version="1.0" encoding="ASCII"?>
<pagedata pagenum="2" EIN="12-3456789">
        <part partnum="2">
                <lineitem linenum="1">
                        <field name="OrgCorpCode">1</field>
                        <field name="CorpArticlesCertifiedInd">Y</field>
                        <field name="CorpArticlesAttachedInd">Y</field>
                        <field name="Corp Amdmt Certified Ind">Y</field>
                        <field name="CorpAmdmtAttachedInd">Y</field>
                </lineitem>
                <lineitem linenum="2">
                        <field name="OrgLtdLiabCompanyCd">N</field>
                        <field name="OrganizationArticlesCertifiedInd">N</field>
                        <field name="OrganizationArticlesAttachedInd">N</field>
                        <field name="OperatingAgrmtAttachedInd">N</field>
                        <field name="OrgArticlesAmdmtCertifiedInd">N</field>
                        <field name="OrgArticlesAmdmtAttachedInd">N</field>
                </lineitem>
                <lineitem linenum="3">
                        <field name="OrgUnincorporatedAssocCd">0</field>
                        <field name="AssocArticlesSignedInd">N</field>
                        <field name="AssocArticlesAttachedInd">N</field>
                        <field name="AssocArticlesAmdmtSignedInd">N</field>
                        <field name="AssocArticlesAmdmtAttachedInd">N</field>
                </lineitem>
                <lineitem linenum="4a">
                        <field name="OrgTrustCd">0</field>
                        <field name="TrustAgrmtSignedInd">N</field>
                        <field name="TrustAgrmtAttachedInd">N</field>
                        <field name="TrustAgrmtAmdmtSignedInd">N</field>
                        <field name="TrustAgrmtAmdmtAttachedInd">N</field>
                </lineitem>
                <lineitem linenum="4b">
                        <field name="OrgTrustFundedCd">0</field>
                </lineitem>
                <lineitem linenum="5">
                        <field name="BylawsAdoptedCd">0</field>
                        <field name="BylawsAttached Ind">0</field>
                </lineitem>
        </part>
        <part partnum="3">
                <lineitem linenum="1">
                        <field name="OrgnzngDocExmptPrpsIncldInd">Y</field>
                </lineitem>
                <lineitem linenum="2">
                        <field name="OrgnzngDocDissolutionPrvsnIncldInd">Y</field>
                        <field name="OrgnzngDocDissolutionPrvsnLocTxt">Page 2, Paragraph 3</field>
                </lineitem>
        </part>
        <part partnum="4">
                <lineitem linenum="1">
                        <field name="PastPresentPlannedActivitiesAttInd">Y</field>
                </lineitem>
        </part>
        <part partnum="5">
                <lineitem linenum="1a">
                        <field name="IndivSequenceNum">1</field>
                        <field name="IndivTypeCd">B</field>
                        <field name="IndivName">Fred Smith</field>
                        <field name="IndivTitle">CEO</field>
                        <field name="IndivStreetAddress">555 Mocking Bird Lane</field>
                        <field name="IndivCityName">Lanham</field>
                        <field name="IndivStateCode">MD</field>
                        <field name="IndivZIPCode">20706-1348</field>
                        <field name="IndivNoCompensationPaidInd">N</field>
                        <field name="IndivCompensationAmount">50000</field>
```

```
                    </lineitem>
            </part>
</pagedata>
```

Figure 2-3. Corresponding XML Document

Attachments to the Form 1023 application are handled in two ways. If a form page's question requires descriptive text as part of the response, and the form page does not provide adequate room on the page to respond, then an additional page is printed that contains the user's response text to the particular question. In addition, a 1-dimensional Code 39 bar code is printed at the top of the page containing the characters "EXPLANATION," signifying to the TEDS scanner that this page is a question response explanation page.

Human readable text would follow, including the form number, form page number, section number, and line-item number from the preceding form page, followed by the user's response text. Printed at the bottom on the text explanation attachment page, is a two-dimensional PDF417 bar code containing an XML representation of the human readable text, enclosed in an element tag using the correct 1023 XML schema field name as the element name for the question being answered.

Attachments that are external to the TEDS Cyber Assistant system and need to be physically inserted by the applicant after the printing is complete are handled with a preceding predefined printed control sheet. The control sheet signifies to the user that following the control sheet is where a user would insert a specific external document. The control sheets also signify to the TEDS scanning process of an external attachment through a Code 39 one-dimensional bar code printed at the top of the control sheet that translates to "EOCNTRL".

In addition, the control sheet also contains a series of check boxes positioned one after the other horizontally down the page. The check boxes are marked sense fields that a scanner can easily scan. Each check box also has a typed description following the check box. The following two diagrams are samples of how TEDS Cyber Assistant handles the two types of attachments.

1023, Pg. 2, Section 4, Lineitem 1: During the previous year our organization has actively been involved in charitable events. During the course of last year, our organization helped to organize the city's Special Olympics, helped to organize and run the cities Walk for the Cure, and help to run and organize a week long blood drive assisting the Red Cross in their efforts.

Presently, our organization is working on a fund raiser to help the homeless and feed the hungry in our city. The fund raiser is schedule to end on December 24, 2005. We hope to raise at least 100,000 dollars to contribute to homeless shelters and food kitchens across the city.

In the future, we plan to continue to support with volunteers the annual Special Olympics and the Walk for the Cure. Also, we are planning on doing a Christmas food drive for the homeless this year. We will continue to support the Red Cross in any area blood drives that we are made aware of as a partner with the American Red Cross.

Figure 2-4. Sample Explanation Sheet
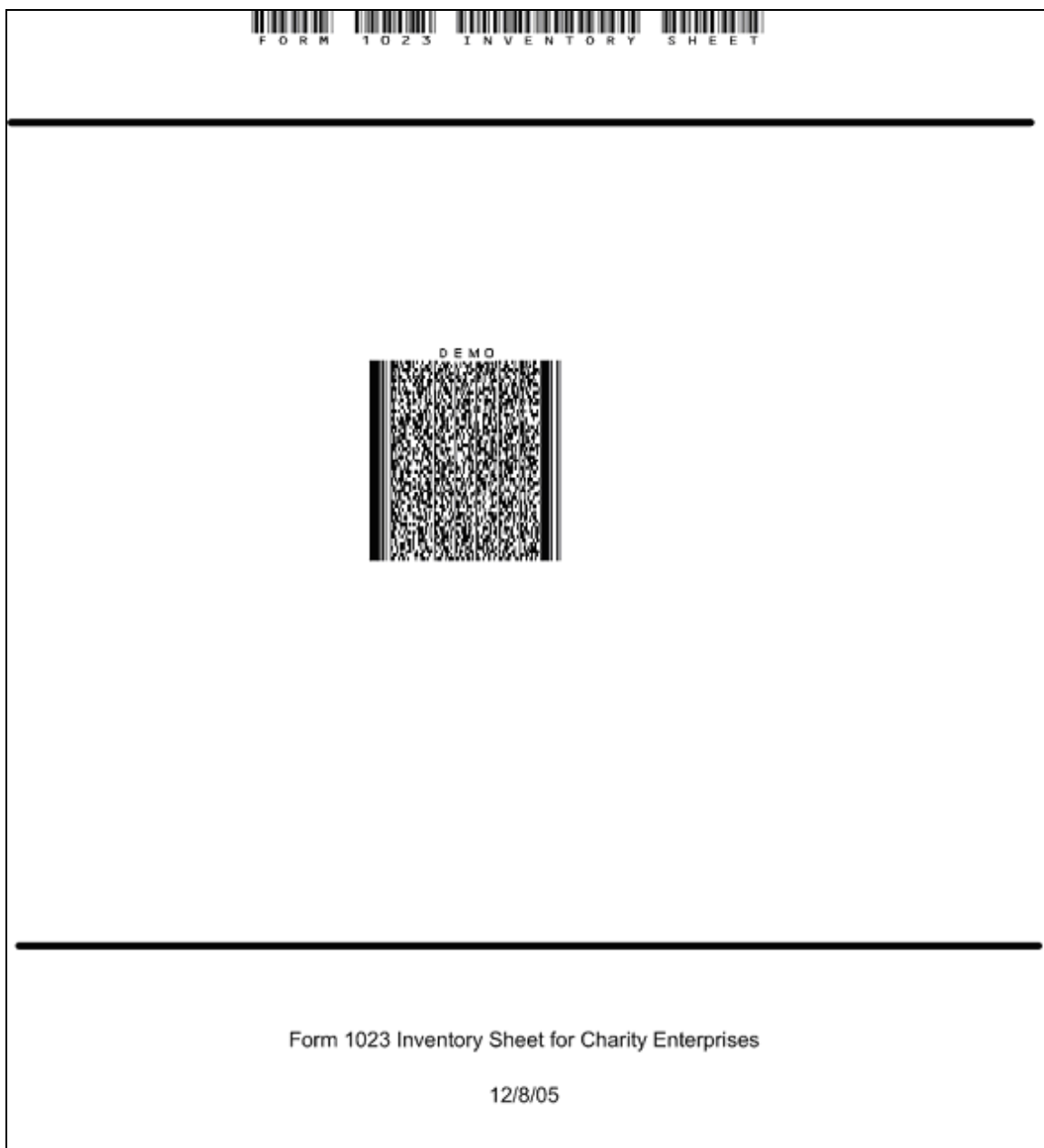
Figure 2-5. Sample EO Control Sheet

In addition, Cyber Assistant will render a one-page inventory sheet as the first page of the complete application rendering that contains a two-dimensional PDF417 barcode containing an XML representation of all rendered forms, system generated attachments, or control sheets. This is done, so that during the TEDS scanning process, a count comparison can be executed of what was physically submitted and what Cyber Assistant calculated should have been submitted. In addition, the inventory sheet would contain at the top a Code 39 bar code that would indicate to

the TEDS scanning process that the page is a TEDS Cyber Assistant inventory sheet. The following is a sample of the inventory sheet and the structure of the XML document contained with in the PDF417 bar code on the inventory sheet.

Figure 2-6. Sample Inventory Sheet

```
<submission ein="12-3456789">
        <page type="1023" pagenum="1" />
```

```
                    <page type="Explanation"/>
                    <page type="Explanation"/>
                    <page type="1023" pagenum="2"/>


                    .
                    .
                    .
                    <page type="ScheduleH" pagenum="1"/>
                    <page type="ControlSheet" description="Articles of Incorporation"/>
                    .
                    .
                    .
            </submission>
```

Figure 2-7. Sample XML For Inventory Sheet

2.5   TEDS Receipt and Handling Description

The TEDS Receipt and Handling module will be the recipient of the mailed paper 1023 application submission. The TEDS Receipt and Handling module relies on some human processing to complete the process. The document preparation department of the Cincinnati Submission Processing Center (CSPC) will do a physical quality inspection for scanning preparedness of the submission. The following list are some of the procedures that document preparation goes through to make sure the submission is ready for scanning.

- Remove staples, rubber bands and any other foreign objects in the batch

- Ensure there are no bent corners

- Ensure that all forms are absent of any extraneous marks that would interfere with the quality of reading

- Ensure that all documents are filled out in blue or black ink

- Ensure that all documents are right side up

- Jog the batches prior to scanning to ensure that the edges of the documents are flush to control document skew

All pages of a 1023 submission are completely scanned as images first. Then, the scanning operator checks the scanned images for image quality. Once the submission pages are introduced into the Process Flow, the next stage is the Image Enhance stage. This stage automatically de-skews and cleans up the images while reading all bar codes from the pages. The reading of the bar codes identifies the type of image page that each paper page represents (e.g. a 1023 page, or an external attachment control sheet). Then, any mark sense fields, such as control sheet checkboxes are processed.

Specifically, for external hard copy attachments the user inserts an EO Control Sheet into the 1023 application printout (see Figure 5) , the scanning process will read the Code 39 bar code identifying the page as an "EOCNTRL" page. Then the mark sense check boxes will be scanned, and the process will look for the check box that is checked, then identify based on the check what type of external attachment is to follow.

For the internal attachments, those text field explanations that the form does not allow adequate room (see Figure 4), the scanning process will scan the top Code 39 bar code and identify the page as an "EXPLANATION" type page, and then the PDF417 2D barcode will be read and the contents parsed. The explanation text will be appended to the field identified at the beginning of the PDF417 barcode. The explanation page will be considered by the scanning process to be a page of the original document.

For the form pages themselves, the scanning will attempt to read the PDF417 bar code at the bottom of the page. If the scanner succeeds in reading the bar code, the contents will be parsed. If the scanning of the bar code fails, then the scanning process will attempt to read the form field data using Optical Character Recognition (OCR) and Optical Mark Recognition (OMR). If that fails, then the scanning operator will perform manual data completion.

The 1023 inventory page's top Code 39 bar code is first scanned to identify the page as an inventory sheet. Then, the PDF417 bar code is scanned and the contents parsed. The Receipt and Handling process will utilize the parsed inventory sheet data to perform a comparison of what was scanned entirely for the 1023 submission against what the inventory sheet data reads should be contained in the submission. If the comparison does not equate then the whole submission is routed to an error path where it will have to be corrected.

Section 3.   Responsibilities

The organizations involved in the design and development of the TEDS Cyber Assistant to TEDS interface are divided into two groups. The TEDS Cyber Assistant development group will handle all of the TEDS Cyber Assistant portions of the overall interface. These include the rendering and printing of all 1023 related forms, attachments, and bar codes.

The TEDS development group will be responsible for the receipt, handling, and scanning of the manually submitted 1023 application.

3.1   TEDS Cyber Assistant Responsibilities

The TEDS Cyber Assistant development group will address the full design, development, testing, and deployment of the Print Controller component. The Print Controller component is responsible for the complete rendering and printing of all related 1023 forms, attachments, and bar coding. In addition, TEDS Cyber Assistant will test the complete system interface between TEDS Cyber Assistant and TEDS in a group effort with the TEDS development team.

3.2   TEDS Responsibilities

The TEDS development team is responsible for the modification of the existing Receipt and Handling module to incorporate the complete scanning and processing of the 1023 application received manually through postal services from a TEDS Cyber Assistant user. The organization will be responsible for the complete design, development, testing, and deployment of the modified Receipt and Handling module. In addition, TEDS will test the complete system interface between TEDS Cyber Assistant and TEDS in a group effort with the TEDS Cyber Assistant development team.

Section 4.   Interface Requirements

The following tables list the TEDS Cyber Assistant requirements related to interfacing capabilities with TEDS.

Table 4-1.   Functional Requirements / Printing and PDF Creation

Requirement ID		Requirement Statement	Rationale
BR5		TSS print the F1023, checklist and other necessary data that was entered by the user to allow submission to the IRS	
	BR5.0.1	TSS print the 1023 form, and schedules A - H as required.	
	BR5.0.2	TSS print, if applicable, form 2848, Power of Attorney and Declaration of Representative.	
	BR5.0.3	TSS print, if applicable, the form 8821, Tax Information Authorization.	
	BR5.0.4	TSS print, if applicable, the form 5768, Election/Revocation of Election by an Eligible Section 501 Organization to Make Expenditures to Influence Legislation.	
	BR5.0.5	TSS print, if applicable, an expedite request.	
	BR5.0.6	TSS print all other attachments, including explanations, and financial data entered by the user.	
	BR5.0.7	TSS print separator pages containing identification of the attachment, form, or schedule to follow.	
	BR5.0.8	TSS print the pre-screening check list.	
	BR5.0.9	TSS print an inventory sheet that contains a 2D PDF417 barcode containing an XML document that list every form page, separator sheet, and schedule page, and internal text explanation page attachments..	
	BR5.0.9.1	TSS require that the inventory sheet be the top sheet of the entire application package.	
BR5.2		In addition to the F-1023, TSS generates paper output containing the items listed in the F-1023 filing instructions. The organization name and EIN shall be on every printed page.	
	BR5.2.1	TSS print the organization's EIN and name in the lower right corner of all attachments, including explanations and financial data entered by the user.	
	BR5.2.2	TSS print a reference to an attachment in/near a form field requiring an attachment due to insufficient space on the form. (e.g. "See attachment F")	
BR5.4		TSS prints any attachment information external to F1023 and its schedules that have been inserted.	
	BR5.4.1	TSS print where applicable any external document	

Requirement ID		Requirement Statement	Rationale
		"attachment" text that has been electronically copied and pasted (or manually entered) into the system.	
BR5.5		TSS order the print papers according to the Form 1023 Checklist:	
	BR5.5.1	TSS print a checklist of all forms and attachments to include in the 1023 submission	
	BR5.5.2	TSS print all forms, separator pages, and attachments in accordance with the checklist.	
	BR5.5.2.1	TSS compile the checklist with items in the following order: 1) The checklist itself, 2) Form 2848, 3) Form 8821, 4)Expedite request, 5) Form 1023 and all schedules (A-H) as required, 6) Articles of Organization, 7) Amendments to articles of organization in chronological order, 8) Bylaws or other rules of operation and amendments, 8) Documentation of nondiscriminatory policy for schools, as required by Schedule B, 9) Form 5768, 10) All other attachments, including explanations, financial data, and printed materials of publications. 11) User fee placed in envelope on top of checklist	*This requirement does not apply to Phase 1 because of the new approach of paper submission vs. electronic*
	BR5.5.3	When a (paper) external attachment is to be included in the application package, TSS generate a separator page indicating where to insert the attachment (following the separator page).	*Any supplemental requested documents that the user might have in an electronic format if the nature of the text is suitable for pasting into a description field. e.g. Articles of Incorporation.*
BR5.6		TSS print forms in a PDF format that conform to current formatting of F-1023 form and schedules	*Checklist, F2848, F8821, Expedite request (if requesting), F1023 and Schedules A-H, Articles of organization, Amendments, Bylaws or other rules of operation, Form 5768 (if filing), other documents, including financial*
	BR5.6.1	TSS generate the 1023 form, including all user input, as a PDF.	
	BR5.6.1.1	TSS generate all 1023 schedules (A-H), including user input, as required, as a PDF.	
	BR5.6.1.2	TSS generate, if applicable, the form 2848, Power of Attorney and Declaration of Representative, including all user input, as a PDF.	
	BR5.6.1.3	TSS generate, if applicable, the form 8821, Tax Information Authorizing, including user input, as a PDF.	
	BR5.6.1.4	TSS generate all separator pages and 2D barcodes as a PDF.	

Requirement ID		Requirement Statement	Rationale
	BR5.6.1.5	TSS provide functionality for the user to generate the PDF.	
	BR5.6.2	TSS allow the user to save the PDF 1023 form to the user's local file system using the built-in functionality within the COTS Adobe Acrobat Reader.	
	BR5.6.3	TSS allow the user to print the PDF 1023 form to the user's local printer using the built-in functionality within the COTS Adobe Acrobat Reader.	
BR5.7		TSS prints any information external to the F-1023 and its schedules that have been inserted. This would include articles of incorporate and other documents specific to the organization and requested as supplemental to the F-1023	
	BR5.7.1	TSS print where applicable any external document "attachment" text that has been electronically copied and pasted (or manually entered) into the system.	
	BR5.7.1.1	TSS generate a separator page for each attachment.	
	BR5.7.1.2	TSS generate a separator page that contains a fixed 3 of 9 barcode and mark-sense fields that define the document.	
	BR5.7.1.3	TSS print an AIS sheet for the entire application that contains entity information and a fixed bar code.	
	BR5.7.1.4	The fixed bar code on the AIS shall identify the package as one generated from Cyber Assistant.	*Enables electronic submission of supporting documents external to the F-1023 application. ISSUE: Content is fine, but also requires PROOF OF CONTENT such as State's stamp authenticating receipt and approval of document.*
BR5.9		TSS print the software version on each page of the printout	*Any supplemental requested documents that the user might have in an electronic format if the nature of the text is suitable for pasting into a description field. e.g. Articles of Incorporation.*
	BR5.9.1	TSS print the software version in the lower left corner of each page.	
Requirement ID	**Requirement Statement**	**Rationale**	
BR5		TSS shall print the F1023, checklist and other necessary data that was entered by the user to allow submission to	

Requirement ID		Requirement Statement	Rationale
		the IRS	
	BR5.0.1	TSS print the 1023 form, and schedules A - H as required.	
	BR5.0.2	TSS print, if applicable, form 2848, Power of Attorney and Declaration of Representative.	***Identifies software version to determine whether printed forms align with latest software version***
	BR5.0.3	TSS print, if applicable, the form 8821, Tax Information Authorization.	

Table 4-2. Interface Requirements

Requirement ID		Requirement Statement	Rationale
BR5.3		TSS generate a 2D bar code containing the following information: data from the form, system generated attachments and schedules, and Form 1023 checklist	
	BR5.3.1	TSS generate 2D barcode using the PDF 417 specification.	
	BR5.3.1.1	TSS format the data encoded in the 2D barcodes in the manner required by TEDS.	TDB from TEDS
	BR5.3.2	TSS generate pages (separate from the form/attachment pages) that display 2D bar codes containing identification and content of the form pages to follow.	TDB from TEDS
	BR5.3.2	TSS generate pages (separate from the form/attachment pages) that display 2D bar codes containing identification and content of the form pages to follow.	TDB from TEDS
	BR5.3.2.1	TSS print on the bottom of each 1023 form page a 2D PDF417 barcode that contains that pages line items and user responses in 1023 XML schema instance format.	TDB from TEDS
	BR5.3.2.2	TSS print on the bottom of each 1023 schedule page a 2D PDF417 barcode that contains that pages line items and user responses in 1023 XML schema instance format.	TDB from TEDS

Section 5.   Boundary Conditions

Since the TEDS Cyber Assistant to TEDS interface delivery mechanism is a manual one, there are no electronic data communications channels between the two systems. The data, however, regardless of form, has to be agreed upon up front. Once the data coming from TEDS Cyber Assistant has been agreed upon between TEDS Cyber Assistant and TEDS, then each can design their organization's components. The data, while in paper format, can be described as paper forms representing the 1023 and 1023 schedule form pages with user data, control sheets with mark sense fields, and one and two-dimensional bar codes.

5.1   Boundary Data

The data being passed across the interface boundary is in the native format of the TEDS Receipt and Handling module. It is in paper form and submitted manually by the TEDS Cyber Assistant user through postal mail channels. The data consists of the following:

- Form 1023 printed pages with printed TEDS Cyber Assistant user input data, as well as a bottom margin PDF417 bar code containing an XML representation of each line item, 1023 schema field, and user data for the page.

- Form 1023 printed Schedule pages (one of A-H) and printed Cyber Assistant user input data, as well as a bottom margin PDF417 bar code containing an XML representation of each line item, 1023 schema field, and user data for the page.

- Printed Control Sheets for TEDS Cyber Assistant user insertion of hardcopy attached documents. The Control Sheets contain one-dimensional Code 39 bar code identifying the sheet to the scanner, and mark sense fields consisting of check boxes identifying to the scanning process what type of attachment is to follow.

- Printed text attachment explanation sheets, which identify to the scanning process an "EXPLANATION" type control sheet using a top one-dimensional Code 39 bar code, and bottom margin two-dimensional PDF417 barcode containing XML representation of the explanation text as well as form, page, section, and line item number.

- External document pages – any external document that a TEDS Cyber Assistant user has supplied at the request of a form 1023 line item.

- A printed inventory sheet containing a PDF417 barcode that consists of an XML representation of a list of all items the TEDS Cyber Assistant believes should be included with the paper 1023 submission.

- If applicable, a printed form 2848 with user data, as well as a bottom margin PDF417 bar code containing an XML representation of each line item, 2848 schema field, and user data for the page.

- If applicable, a printed 8821 with user data, as well as a bottom margin PDF417 bar code containing an XML representation of each line item, 8821 schema field, and user data for the page.

5.1.1   Boundary Data Assemblies

N/A

5.1.2   Boundary Data Elements

The data elements that follow make up the element names that will be contained in the 1023 XML schema including the additional forms, 2848, 8821, and 5768.

Table 5-1. Form 1023 Data Elements

Field Contents Description	Data Length	Data Type	Format
DLN	14	TextType	
Postmark Date	10	DateType	YYYY-MM-DD
Received Date	10	DateType	YYYY-MM-DD
Form Revision Date	7	YearMonthType	YYYYMM
Organization Name 1 Txt	**50**	BusinessNameLine1Type	
Organization Name 2 Txt	**50**	BusinessNameLine2Type	
Address Line 1 Text	35	StreetAddressType	
Address Line 2 Text	35	StreetAddressType	
City Name	22	CityType	
State Code	2	StateType	
ZIP Code	9	ZIPCodeType	
Foreign Country Code	**2**	CountryType	
Postal Code	**50**	TextType	
EIN	9	EINType	
Accounting Period End Month Num	2	MonthType	
Primary Contact Name	35	PersonNameType	
Primary Contact Phone Num Txt	10	PhoneNumberType	
Primary Contact Fax Num Txt	10	PhoneNumberType	nnnnnnnnnn or N/A
Auth Rep Code	1	TextType	1 (Yes), 2 (No), 4 (Generated Yes), 6 (both), blank
Auth Rep Name	35	PersonNameType	
Auth Rep Firm Name	35	BusinessNameLine1Type	
Auth Rep Street Address	35	StreetAddressType	
Auth Rep City Name	22	CityType	
Auth Rep State Code	2	StateType	

Field Contents Description	Data Length	Data Type	Format
Auth Rep ZIP Code	9	ZIPCodeType	
Auth Rep Foreign Country Code	2	CountryType	
Auth Rep Postal Code	50	TextType	
Auth Rep on 2848 Ind	1	BooleanType	Y/N
Form 2848 Attached Ind	1	BooleanType	Y/N
Paid Advisor Code	1	TextType	1 (Yes), 2 (No), 4 (Generated Yes), 6 (both), blank
Paid Advisor Name	35	PersonNameType	
Paid Advisor Firm Name	35	BusineessNameLine1Type	
Paid Advisor Street Address	35	StreetAddressType	
Paid Advisor City Name	22	CityType	
Paid Advisor State Code	2	StateType	
Paid Advisor ZIP Code	9	ZIPCodeType	
Paid Advisor Foreign Cntry Code	35	CountryType	
Paid Advisor Postal Code	50	TextType	Y/N
Paid Advisor Paid Amount	15	USAmountType	
Paid Advisor Role	100	LineExplanationType	
Organization URL Text	170	TextType	
Organization Email Text	75	EmailAddressType	
Form 990 Excused Code	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Form 990 Excused Text	9000	ExplanationType	
Incorporated Date	10	DateType	YYYY-MM-DD
Formed Frgn Cntry Laws Code	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Formed Frgn Cntry Laws Cntry Cd	2	CountryType	
Org Corp Code	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Corp Articles Certified Ind	1	BooleanType	Y, N
Corp Articles Attached Ind	1	BooleanType	Y, N
Corp Articles Img		BLOB	
Corp Amdmt Certified Ind	1	BooleanType	Y, N
Corp Amdmt Attached Ind	1	BooleanType	Y, N
Corp Amdmt Img		BLOB	
Org Ltd Liab Company Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Organization Articles Certified Ind	1	BooleanType	Y, N
Organization Articles Attached Ind	1	BooleanType	Y, N

Field Contents Description	Data Length	Data Type	Format
Organization Articles Img		BLOB	
Operating Agrmt Attached Ind	1	BooleanType	Y, N
Operating Agrmt Img		BLOB	
Org Articles Amdmt Certified Ind	1	BooleanType	Y, N
Org Articles Amdmt Attached Ind	1	BooleanType	Y, N
Org Articles Amdmt Img		BLOB	
Org Unincorporated Assoc Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Assoc Articles Signed Ind	1	BooleanType	Y, N
Assoc Articles Attached Ind	1	BooleanType	Y, N
Assoc Articles Img		BLOB	
Assoc Articles Amdmt Signed Ind	1	BooleanType	Y, N
Assoc Articles Amdmt Attached Ind	1	BooleanType	Y, N
Assoc Articles Amdmt Img		BLOB	
Org Trust Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Trust Agrmt Signed Ind	1	BooleanType	Y, N
Trust Agrmt Attached Ind	1	BooleanType	Y, N
Trust Agrmt Img		BLOB	
Trust Agrmt Amdmt Signed Ind	1	BooleanType	Y, N
Trust Agrmt Amdmt Attached Ind	1	BooleanType	Y, N
Trust Agrmt Amdmt Img		BLOB	
Org Trust Funded Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Org Trust Unfunded Explanation Txt	9000	ExplanationType	
Bylaws Adopted Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Bylaws Attached Ind	1	BooleanType	Y, N
Bylaws Img		BLOB	
No Bylaws Adopted Explanation Txt	9000	ExplanationType	
Orgnzng Doc Exmpt Prps Incld Ind	1	BooleanType	Y, N
Orgnzng Doc Exmpt Prps Loc Txt	100	LineExplanationType	
Orgnzng Doc Dissolution Prvsn Incld Ind	1	BooleanType	Y, N
Orgnzng Doc Dissolution Prvsn Loc Txt	100	LineExplanationType	
Dissolution Prvsn Under State Law Ind	1	BooleanType	Y, N
Dissolution Prvsn State Cd	2	StateType	
Dissolution Prvsn Cntry Cd	2	CountryType	
Past Present Planned Activities Att Ind	1	BooleanType	Y, N
Past Present Planned Activities Img		BLOB	
Indiv Sequence Num	2	IntegerPosType	
Indiv Type Cd	1	TextType	A = Officer, Director, Trustee; B = Employee; C = Independent Contractor
Indiv Name	35	PersonNameType	

Field Contents Description	Data Length	Data Type	Format
Indiv Title	35	PersonTitleType	
Indiv Street Address	35	StreetAddressType	
Indiv City Name	22	CityType	
Indiv State Code	2	StateType	
Indiv ZIP Code	9	ZIPCodeType	
Indiv Foreign Country Cd	2	CountryType	
Indiv Foreign Postal Code	50	TextType	
Indiv No Compensation Paid Ind	1	BooleanType	Y, N
Indiv Compensation Amount	15	USAmountType	
Indiv Qualifications Txt	1000	ShortExplanationType	
Indiv Avg Hours Worked Num	3	IntegerPosType	
Indiv Duties Txt	1000	ShortExplanationType	
Ofcr Dir Trst Fam Bus Rln Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Ofcr Dir Trst Fam Bus Rln Expln Att Ind	1	BooleanType	Y, N
Ofcr Dir Trst Fam Bus Rln Expln Txt	9000	ExplanationType	
Ofcr Dir Trst Bus Rln Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Ofcr Dir Trst Bus Rln Expln Att Ind	1	BooleanType	Y, N
Ofcr Dir Trst Bus Rln Expln Txt	9000	ExplanationType	
Empl Ind Cntrct Rln Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Empl Ind Cntrct Rln Expln Att Ind	1	BooleanType	Y, N
Empl Ind Cntrct Rln Expln Txt	9000	ExplanationType	
Indiv Rltd Org Comp Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Indiv Rltd Org Comp Expln Att Ind	1	BooleanType	Y, N
Indiv Rltd Org Comp Expln Txt	9000	ExplanationType	
Conflict Interest Policy Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Advnc Comp Arrngm Apprvl Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Comp Arrngm Doc Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Comp Arrngm Record Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Similarly Situated Comp Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Comp Decision Source Record Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Comp Decision Txt	9000	ExplanationType	
Adopt Conflict Interest Policy Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Conflict Interest Policy Att Ind	1	BooleanType	Y, N
Conflict Interest Policy Img		BLOB	
Conflict Interest Comp Txt	9000	ExplanationType	

Field Contents Description	Data Length	Data Type	Format
Conflict Interest Business Deal Txt	9000	ExplanationType	
Ofcr Dir Trst Non Fixed Pymt Comp Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Ofcr Dir Trst Non Fixed Pymt Desc Att Ind	1	BooleanType	Y, N
Ofcr Dir Trst Non Fixed Pymt Desc Img		BLOB	
Other Emp Non Fixed Pymt Comp Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Other Emp Non Fixed Pymt Desc Att Ind	1	BooleanType	Y, N
Other Emp Non Fixed Pymt Desc Img		BLOB	
Ofcr Dir Trst Prchs Goods Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Ofcr Dir Trst Prchs Goods Desc Txt	9000	ExplanationType	
Ofcr Dir Trst Prchs Goods Cntrct Att Ind	1	BooleanType	Y, N
Ofcr Dir Trst Prchs Goods Cntrct Img		BLOB	
Ofcr Dir Trst Sell Goods Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Ofcr Dir Trst Sell Goods Desc Txt	9000	ExplanationType	
Ofcr Dir Trst Sell Goods Cntrct Att Ind	1	BooleanType	Y, N
Ofcr Dir Trst Sell Goods Cntrct Img		BLOB	
Ofcr Dir Trst Leases Loans Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Ofcr Dir Trst Leases Loans Desc Txt	9000	ExplanationType	
Ofcr Dir Trst Leases Loans Prtcp Txt	9000	ExplanationType	
Ofcr Dir Trst Leases Loans Negotiation Txt	9000	ExplanationType	
Ofcr Dir Trst Leases Loans Fair Mrkt Vl Txt	9000	ExplanationType	
Ofcr Dir Trst Leases Loans Att Ind	1	BooleanType	Y, N
Ofcr Dir Trst Leases Loans Img		BLOB	
Ofcr Dir Trst Oth Org Agrmt Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Ofcr Dir Trst Oth Org Agrmt Desc Txt	9000	ExplanationType	
Ofcr Dir Trst Oth Org Agrmt Prtcp Txt	9000	ExplanationType	
Ofcr Dir Trst Oth Org Agrmt Negotiation Txt	9000	ExplanationType	
Ofcr Dir Trst Oth Org Agrmt Fair Mrkt Vl Txt	9000	ExplanationType	
Ofcr Dir Trst Oth Org Agrmt Att Ind	1	BooleanType	Y, N
Ofcr Dir Trst Oth Org Agrmt Img		BLOB	
Provide Indiv Goods Services Funds Ind	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Provide Indiv Goods Services Funds Att Ind	1	BooleanType	Y, N
Provide Indiv Goods Services Funds Img		BLOB	
Provide Org Good Services Funds Ind	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Provide Org Good Services Funds Att Ind	1	BooleanType	Y, N
Provide Org Good Services Funds Img		BLOB	
Limit Good Services Funds Spcfc Indiv Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Limit Good Services Funds Spcfc Indiv Txt	9000	ExplanationType	

Field Contents Description	Data Length	Data Type	Format
Rcpnt Rln Ofcr Dir Trst Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Rcpnt Rln Ofcr Dir Trst Txt	9000	ExplanationType	
Organization Successor Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
App Submitted 27 Mnth Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Political Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Legislation Influence Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Legislation Influence Txt	9000	ExplanationType	
Leg Act Measured Elec Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Form 5768 Attached Ind	1	BooleanType	Y, N
Leg Infl Subs Acty Txt	9000	ExplanationType	
Gaming Acty Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Gaming Acty Txt	9000	ExplanationType	
Gaming Acty Revenue Amt	15	USAmountType	
Gaming Acty Expense Amt	15	USAmountType	
Gaming Contract Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Gaming Contract Txt	9000	ExplanationType	
Gaming Contract Att Ind	1	BooleanType	Y, N
Gaming Contract Img		BLOB	
Gaming Jurisdiction Txt	9000	ExplanationType	
Fndrsng Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fndrsng Mail Ind	1	BooleanType	Y, N
Fndrsng Phone Ind	1	BooleanType	Y, N
Fndrsng Email Ind	1	BooleanType	Y, N
Fndrsng Website Ind	1	BooleanType	Y, N
Fndrsng Personal Ind	1	BooleanType	Y, N
Fndrsng Other Org Website Ind	1	BooleanType	Y, N
Fndrsng Vehicle Donation Ind	1	BooleanType	Y, N
Fndrsng Govt Grant Ind	1	BooleanType	Y, N
Fndrsng Fndtn Grant Ind	1	BooleanType	Y, N
Fndrsng Other Ind	1	BooleanType	Y, N
Fndrsng Description Txt	9000	ExplanationType	
Fndrsng Contract Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fndrsng Contract Desc Txt	9000	ExplanationType	
Fndrsng Contract Att Ind	1	BooleanType	Y, N
Fndrsng Contract Img		BLOB	

Field Contents Description	Data Length	Data Type	Format
Fndrsng Oth Org Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fndrsng Oth Org Desc Txt	9000	ExplanationType	
Fndrsng Oth Org Agrmt Att Ind	1	BooleanType	Y, N
Fndrsng Oth Org Agrmt Img		BLOB	
Fndrsng Jurisd Txt	9000	ExplanationType	
Fndrsng Contributor Sep Acct Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fndrsng Contributor Sep Acct Txt	9000	ExplanationType	
Fndrsng Contributor Sep Acct Att Ind	1	BooleanType	Y, N
Fndrsng Contributor Sep Acct Img		BLOB	
Govt Affiliation Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Govt Affiliation Expl Txt	9000	ExplanationType	
Economic Dev Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Economic Dev Desc Txt	9000	ExplanationType	
Economic Dev Benefit Txt	9000	ExplanationType	
Facility Developer Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Facility Developer Desc Txt	9000	ExplanationType	
Facility Manage Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Facility Manage Desc Txt	9000	ExplanationType	
Facility Develop Manage Rln Txt	9000	ExplanationType	
Facility Develop Manage Cntrct Att Ind	1	BooleanType	Y, N
Facility Develop Manage Cntrct Img		BLOB	
Joint Venture Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Joint Venture Desc Txt	9000	ExplanationType	
Childcare Org Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Childcare Prnt Employ Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Childcare Prnt Employ Expln Txt	9000	ExplanationType	
Childcare Prnt Employ 85 Pct Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Childcare Prnt Employ 85 Pct Expln Txt	9000	ExplanationType	
Childcare Srvcs Gen Pub Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Childcare Srvcs Group Desc Txt	9000	ExplanationType	
Childcare Srvcs Gen Pub Expl Txt	9000	ExplanationType	
Intellectual Property Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Intellectual Property Desc Txt	9000	ExplanationType	

Field Contents Description	Data Length	Data Type	Format
Certain Contribution Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Certain Contribution Desc Txt	9000	ExplanationType	
Frgn Cntry Operation Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Frgn Cntry Name Txt	9000	ExplanationType	
Frgn Cntry Operation Txt	9000	ExplanationType	
Frgn Cntry Exempt Purpose Txt	9000	ExplanationType	
Grants Loans Distri Org Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Grants Loans Distri Desc Txt	9000	ExplanationType	
Grants Loans Distri Cntrct Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Grants Loans Distri Cntrct Att Ind	1	BooleanType	Y, N
Grants Loans Distri Cntrct Img		BLOB	
Grants Loans Distri Org Txt	9000	ExplanationType	
Grants Loans Distri Records Txt	9000	ExplanationType	
Grants Loans Distri Sel Proc Txt	9000	ExplanationType	
Grants Loans Distri Appl Rqr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Grants Loans Distri Appl Att Ind	1	BooleanType	Y, N
Grants Loans Distri Appl Img		BLOB	
Grants Loans Distri Proposal Rqr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Grants Loans Distri Proposal Desc Txt	9000	ExplanationType	
Grants Loans Distri Oversight Proc Txt	9000	ExplanationType	
Grants Loans Distri Frgn Org Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Grants Loans Distri Frgn Org Desc Txt	9000	ExplanationType	
Frgn Spcfc Cntry Org Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Frgn Spcfc Cntry Desc Txt	9000	ExplanationType	
Contributor Ultimate Auth Knwldg Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Contributor Ultimate Auth Knwldg Txt	9000	ExplanationType	
Pre Grant Inquiry Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Pre Grant Inquiry Desc Txt	9000	ExplanationType	
Frgn Org Addnl Proc Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Frgn Org Addnl Proc Txt	9000	ExplanationType	
Org Close Connection Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Org Close Connection Expln Txt	9000	ExplanationType	
Coop Hospital Srvc Org Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank

Field Contents Description	Data Length	Data Type	Format
Coop Hospital Srvc Org Expln Txt	9000	ExplanationType	
Coop Srvc Org Educ Org Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Coop Srvc Org Educ Org Expln Txt	9000	ExplanationType	
Charitable Risk Pool Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Charitable Risk Pool Expln Txt	9000	ExplanationType	
Org School Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Hospital Prim Func Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Eldr Handicapped Low Incm Hsng Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Sch Educ Grant Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Financial Data Total Ind	1	BooleanType	Y, N
Financial Data Start Dt	10	DateType	YYYY-MM-DD
Financial Data End Dt	10	DateType	YYYY-MM-DD
Total Contributions Amt	15	USAmountType	
Membership Dues Amt	15	USAmountType	
Gross Investment Income Amt	15	USAmountType	
Unrelated Business Income Amt	15	USAmountType	
Taxes Levied Amt	15	USAmountType	
Gov Services Value Amt	15	USAmountType	
Other Revenue Amt	15	USAmountType	
Other Revenue List Txt	9000	ExplanationType	
Total Income Amt	15	USAmountType	
Gross Receipts Amt	15	USAmountType	
Gross Receipts List Txt	9000	ExplanationType	
Total Income Receipts Amt	15	USAmountType	
Capital Assets Net Gain Loss Amt	15	USAmountType	
Capital Assets Net Gain Loss List Txt	9000	ExplanationType	
Unusual Grants Amt	15	USAmountType	
Total Revenue Amt	15	USAmountType	
Fundraising Expenses Amt	15	USAmountType	
Grants And Allocations Paid Amt	15	USAmountType	
Grants And Allocations Paid List Txt	9000	ExplanationType	
Benefits Paid To Or For Members Amt	15	USAmountType	
Benefits Paid To Or For Members List Txt	9000	ExplanationType	
Compensation Officers Directors Amt	15	USAmountType	
Other Salaries And Wages Amt	15	USAmountType	
Interest Expense Amt	15	USAmountType	
Occupancy Expense Amt	15	USAmountType	
Depreciation Depletion Expense Amt	15	USAmountType	
Professional Fees Amt	15	USAmountType	
Other Expenses Amt	15	USAmountType	

Field Contents Description	Data Length	Data Type	Format
Other Expenses List Txt	9000	ExplanationType	
Total Expenses Amt	15	USAmountType	
Balance Sheet Year End Num	4	YearType	
Cash Amt	15	USAmountType	
Accounts Receivable Net Amt	15	USAmountType	
Inventories For Sale Or Use Amt	15	USAmountType	
Bonds Notes Receivable Amt	15	USAmountType	
Bonds Notes Receivable List Txt	9000	ExplanationType	
Investments Securities Amt	15	USAmountType	
Investments Securities List Txt	9000	ExplanationType	
Loans Receivable Amt	15	USAmountType	
Loans Receivable List Txt	9000	ExplanationType	
Investments Other Amt	15	USAmountType	
Investments Other List Txt	9000	ExplanationType	
Depreciable Assets Amt	15	USAmountType	
Depreciable Assets List Txt	9000	ExplanationType	
Invst Land Amt	15	USAmountType	
Other Assets Amt	15	USAmountType	
Other Assets List Txt	9000	ExplanationType	
Total Assets Amt	15	USAmountType	
Accounts Payable Amt	15	USAmountType	
Contributions Gifts Grants Payable Amt	15	USAmountType	
Mortgages And Notes Payable Amt	15	USAmountType	
Mortgages And Notes Payable List Txt	9000	ExplanationType	
Other Liabilities Amt	15	USAmountType	
Other Liabilities List Txt	9000	ExplanationType	
Total Liabilities Amt	15	USAmountType	
Total Net Assets Or Fund Balances Amt	15	USAmountType	
Total Liabilities And Net Assets Amt	15	USAmountType	
Assets Liabilities Change Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Assets Liabilities Change Expln Txt	9000	ExplanationType	
Prvt Fndtn Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prvt Fndtn Prvsn Loc Txt	9000	ExplanationType	
Prvt Opr Fndtn Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prvt Opr Fndtn More One Year Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prvt Opr Fndtn Fincl Info Txt	9000	ExplanationType	
Prvt Opr Fndtn Affidavit Stmt Att Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prvt Opr Fndtn Affidavit Stmt Att Ind	1	BooleanType	Y, N
Prvt Opr Fndtn Affidavit Stmt Img		BLOB	
Church Ind	1	BooleanType	Y, N
School Ind	1	BooleanType	Y, N

Field Contents Description	Data Length	Data Type	Format
Hospital Ind	1	BooleanType	Y, N
Support Ind	1	BooleanType	Y, N
Public Safety Testing Ind	1	BooleanType	Y, N
Govt University Benefit Ind	1	BooleanType	Y, N
509a1 Org Ind	1	BooleanType	Y, N
509a2 Org Ind	1	BooleanType	Y, N
Publicly Supported Org Ind	1	BooleanType	Y, N
Advance Ruling Request Ind	1	BooleanType	Y, N
Advance Ruling Sgntr Ind	1	BooleanType	Y, N
Advance Ruling Sgntr Name Txt	35	PersonNameType	
Advance Ruling Sgntr Title Txt	35	PersonTitleType	
Advance Ruling Sgntr Dt	10	DateType	YYYY-MM-DD
EO Director Sgntr Ind	1	BooleanType	Y, N
EO Director Sgntr Dt	10	DateType	YYYY-MM-DD
Definitive Ruling Request Ind	1	BooleanType	Y, N
Two Pct Total Income Amt	15	USAmountType	
No Contrib Greater Two Pct Ind	1	BooleanType	Y, N
Contrib Greater Two Pct Txt	9000	ExplanationType	
No Contrib Rcvd Disqualified Prsn Ind	1	BooleanType	Y, N
Contrib Rcvd Disqualified Prsn Txt	9000	ExplanationType	
No Contrib Rcvd Grtr Limit Ind	1	BooleanType	Y, N
Contrib Rcvd Grtr Limit Txt	9000	ExplanationType	
Unusual Grants Rcvd Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Unusual Grants Rcvd Txt	9000	ExplanationType	
User Fee Paid Amt	15	USAmountType	
Gross Rcpts 10000 Less Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Reduced User Fee Enclosed Ind	1	BooleanType	Y, N
User Fee Enclosed Ind	1	BooleanType	Y, N
Signature Ind	1	BooleanType	Y, N
Signature Name Txt	35	PersonNameType	
Signature Title Txt	35	PersonTitleType	
Signature Dt	10	DateType	YYYY-MM-DD
Govt Funds Pub School Desc Txt	9000	ExplanationType	
Govt Funds Pub School Fndng Agrmt Att Ind	1	BooleanType	Y, N
Govt Funds Pub School Fndng Agrmt Img		BLOB	
Public School District Name Txt	70	TextType	
Public School County Name Txt	70	TextType	
Public School State Cd	2	StateType	
Formed Desegregation Time Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Racially Discriminatory Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Racially Discriminatory Expl Txt	9000	ExplanationType	

Field Contents Description	Data Length	Data Type	Format
Financial Aid Revoked Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Financial Aid Revoked Expl Txt	9000	ExplanationType	
Facility Dev Cntrct Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Facility Dev Cntrct Expl Txt	9000	ExplanationType	
School Manage Own Fctls Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
School Manage Own Fctls Expl Txt	9000	ExplanationType	
School Manage Own Fctls Cntrct Att Ind	1	BooleanType	Y, N
School Manage Own Fctls Cntrct Img		BLOB	
Racially Nondis Plcy Adpt Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Racially Nondis Plcy Loc Txt	9000	ExplanationType	
Racially Nondis Plcy Att Ind	1	BooleanType	Y, N
Racially Nondis Plcy Img		BLOB	
Racially Nondis Plcy Brochure Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Racially Nondis Plcy Brochure Att Ind	1	BooleanType	Y, N
Racially Nondis Plcy Brochure Img		BLOB	
Racially Nondis Plcy Fut Prntd Mtrl Ind	1	BooleanType	Y, N
Racially Nondis Plcy Pub Newspaper Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Racially Nondis Plcy Pub Newspaper Expl Txt	9000	ExplanationType	
Racial Discrm Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Racial Discrm Expl Txt	9000	ExplanationType	
Racial Category Txt	25	TextType	
Racial Curr Yr Stdnt Body Cnt	15	IntegerPosType	
Racial Next Yr Stdnt Body Cnt	15	IntegerPosType	
Racial Curr Yr Faculty Cnt	15	IntegerPosType	
Racial Next Yr Faculty Cnt	15	IntegerPosType	
Racial Curr Yr Admin Cnt	15	IntegerPosType	
Racial Next Yr Admin Cnt	15	IntegerPosType	
Racial Curr Yr Loans Cnt	15	IntegerPosType	
Racial Next Yr Loans Cnt	15	IntegerPosType	
Racial Curr Yr Loans Amt	15	USAmountType	
Racial Next Yr Loans Amt	15	USAmountType	
Racial Curr Yr Sch Cnt	15	IntegerPosType	
Racial Next Yr Sch Cnt	15	IntegerPosType	
Racial Curr Yr Sch Amt	15	USAmountType	
Racial Next Yr Sch Amt	15	USAmountType	
Incorporator Founder List Txt	9000	ExplanationType	
Incorporator Segregation Objctv Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Incorporator Segregation Objctv Expl Txt	9000	ExplanationType	

Field Contents Description	Data Length	Data Type	Format
Maintain Nondis Records Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Maintain Nondis Records Expl Txt	9000	ExplanationType	
Hospital Ind		1	BooleanType
Hospital Ind	1	BooleanType	Y, N
Medical Research Org Ind	1	BooleanType	Y, N
All Doctors Elig Staff Priv Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
All Doctors Elig Staff Priv Expl Txt	9000	ExplanationType	
Prov Med Srvc All Can Pay Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prov Med Srvc All Can Pay Expl Txt	9000	ExplanationType	
Prov Med Srvc Medcr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prov Med Srvc Medcr Expl Txt	9000	ExplanationType	
Prov Med Srvc Medicaid Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prov Med Srvc Medicaid Expl Txt	9000	ExplanationType	
Medcr Dep Rqr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Medcr Dep Rqr Expl Txt	9000	ExplanationType	
All Oth Patients Dep Rqr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
All Oth Patients Dep Rqr Expl Txt	9000	ExplanationType	
Full Time Emerg Room Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Full Time Emerg Room Expl Txt	9000	ExplanationType	
Emerg Srvc Cannot Pay Plcy Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Emerg Srvc Cannot Pay Plcy Att Ind	1	BooleanType	Y, N
Emerg Srvc Cannot Pay Plcy Img		BLOB	
Emerg Admiss Police Arrngm Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Emerg Admiss Police Arrngm Desc Txt	9000	ExplanationType	
Emerg Admiss Police Arrngm Att Cd	1	BooleanType	Y, N
Emerg Admiss Police Arrngm Img		BLOB	
Charity Patient Srvc Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Charity Patient Policy Txt	9000	ExplanationType	
Charity Patient Policy Att Ind	1	BooleanType	Y, N
Charity Patient Policy Img		BLOB	
Charity Patient History Txt	9000	ExplanationType	
Charity Patient Fed St Arrngm Txt	9000	ExplanationType	
Charity Patient Fed St Att Cd	1	BooleanType	Y, N
Charity Patient Fed St Img		BLOB	

Field Contents Description	Data Length	Data Type	Format
Sliding Fee Schedule Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Sliding Fee Schedule Att Cd	1	BooleanType	Y, N
Sliding Fee Schedule Img		BLOB	
Med Trng Rsrch Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Med Trng Rsrch Desc Txt	9000	ExplanationType	
Com Educ Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Com Educ Desc Txt	9000	ExplanationType	
Phys Ofc Space Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Phys Ofc Space Desc Txt	9000	ExplanationType	
Phys Ofc Space Lease Att Ind	1	BooleanType	Y, N
Phys Ofc Space Lease Img		BLOB	
Rep Brd of Dir Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Rep Brd of Dir Expl Txt	9000	ExplanationType	
Hospital Jnt Vntr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Hospital Jnt Vntr Desc Txt	9000	ExplanationType	
Hospital Jnt Vntr Agrmt Att Ind	1	BooleanType	Y, N
Hospital Jnt Vntr Agrmt Img		BLOB	
Hospital Manage Own Fctls Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Hospital Manage Own Fctls Expl Txt	9000	ExplanationType	
Hospital Manage Own Fctls Cntrct Att Ind	1	BooleanType	Y, N
Hospital Manage Own Fctls Cntrct Img		BLOB	
Phys Recruitment Incntv Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Phys Recruitment Incntv Desc Txt	9000	ExplanationType	
Phys Recruitment Incntv Plcy Att Ind	1	BooleanType	Y, N
Phys Recruitment Incntv Plcy Img		BLOB	
Rltd Phys Lease Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Rltd Phys Lease Expl Txt	9000	ExplanationType	
Rltd Phys Asset Prchs Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Rltd Phys Asset Prchs Desc Txt	9000	ExplanationType	
Rltd Phys Asset Prchs Att Ind	1	BooleanType	Y, N
Rltd Phys Asset Prchs Img		BLOB	
Cnflct of Int Plcy Adpt Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Cnflct of Int Plcy Desc Txt	9000	ExplanationType	
Cnflct of Int Plcy Att Ind	1	BooleanType	Y, N
Cnflct of Int Plcy Img		BLOB	

Field Contents Description	Data Length	Data Type	Format
Rltd Hospital Name Txt	70	TextType	
Rltd Hospital Rel Desc Txt	9000	ExplanationType	
Rltd Hospital Agrmt Att Ind	1	BooleanType	Y, N
Rltd Hospital Agrmt Imt		BLOB	
Med Rsrch Pres Prpsd Act Desc Txt	9000	ExplanationType	
Med Rsrch Assets Desc Txt	9000	ExplanationType	
Supported Org Name 1 Txt	35	BusinessNameLine1Type	
Supported Org Name 2 Txt	35	BusinessNameLine2Type	
Supported Org Street Address	35	StreetAddressType	
Supported Org City Name	22	CityType	
Supported Org State Code	2	StateType	
Supported Org ZIP Code	9	ZIPCodeType	
Supported Org Frgn Country Code	2	CountryType	
Supported Org Postal Code	50	TextType	
Supported Org EIN	9	EINType	
All Orgs Public Charity Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Tax Exempt Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Total Contributions Amt	15	USAmountType	
Membership Dues Amt	15	USAmountType	
Gross Investment Income Amt	15	USAmountType	
Unrelated Business Income Amt	15	USAmountType	
Taxes Levied Amt	15	USAmountType	
Gov Services Value Amt	15	USAmountType	
Other Revenue Amt	15	USAmountType	
Other Revenue List Txt	9000	ExplanationType	
Total Income Amt	15	USAmountType	
Gross Receipts Amt	15	USAmountType	
Gross Receipts List Txt	9000	ExplanationType	
Total Income Receipts Amt	15	USAmountType	
Capital Assets Net Gain Loss Amt	15	USAmountType	
Capital Assets Net Gain Loss List Txt	9000	ExplanationType	
Unusual Grants Amt	15	USAmountType	
Total Revenue Amt	15	USAmountType	
No Contrib Rcvd Disqualified Prsn Ind	1	BooleanType	Y, N
Contrib Rcvd Disqualified Prsn Txt	9000	ExplanationType	
No Contrib Rcvd Grtr Limit Ind	1	BooleanType	Y, N
Contrib Rcvd Grtr Limit Txt	9000	ExplanationType	
Unusual Grants Rcvd Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Unusual Grants Rcvd Txt	9000	ExplanationType	
Supported Org Not Tax Exmpt Expl Txt	9000	ExplanationType	
Brd Sel Supported Org Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Brd Sel Supported Org Expl Txt	9000	ExplanationType	

Field Contents Description	Data Length	Data Type	Format
Brd Also Srv Supported Org Brd Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Brd Also Srv Supported Org Brd Expl Txt	9000	ExplanationType	
Supported Org Enforce Acct Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Enforce Acct Expl Txt	9000	ExplanationType	
Supported Org Enforce Acct Doc Att Ind	1	BooleanType	Y, N
Supported Org Enforce Acct Doc Img		Blob	
Supported Org Appoint Ofcr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Appoint Ofcr Expl Txt	9000	ExplanationType	
Supported Org Appoint Ofcr Doc Att Ind	1	BooleanType	Y, N
Supported Org Appoint Ofcr Doc Img		Blob	
Supported Org Gov Body Ofcr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Gov Body Ofcr Expl Txt	9000	ExplanationType	
Supported Org Gov Body Ofcr Doc Att Ind	1	BooleanType	Y, N
Supported Org Gov Body Ofcr Doc Img		Blob	
Supported Org Close Rln Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Close Rln Expl Txt	9000	ExplanationType	
Supported Org Close Rln Doc Att Ind	1	BooleanType	Y, N
Supported Org Close Rln Doc Img		Blob	
Supported Org Directs Incm Use Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Directs Incm Use Expl Txt	9000	ExplanationType	
Supported Org Directs Incm Use Doc Att Ind	1	BooleanType	Y, N
Supported Org Directs Incm Use Doc Img		Blob	
Supported Org Commun Desc Txt	9000	ExplanationType	
Supported Org Commun Att Ind	1	BooleanType	Y, N
Supported Org Commun Img		Blob	
Supported Org Activities Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Activities Expl Txt	9000	ExplanationType	
Supported Org Net Incm 85 Pct Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Net Incm Pct	5	DecimalType	
Supported Org Net Incm Expl Txt	1000	ShortExplanationType	
Supported Org Name	100	LineExplanationType	
Supported Org Amount	15	USAmountType	
Supported Org Total Annl Rev Amt	15	USAmountType	
Supported Org Earmark Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Supported Org Earmark Expl Txt	9000	ExplanationType	
Supported Org In Org Doc Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank

Field Contents Description	Data Length	Data Type	Format
Supported Org Org Doc Loc Txt	100	LineExplanationType	
Supported Org Hist Rln Expl Txt	9000	ExplanationType	
Org Test Org Doc Org Name Prps Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Org Test Org Doc Org Name Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Dsqlfy Prsn Appt Mgr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Dsqlfy Prsn Appt Mgr Process Txt	9000	ExplanationType	
Dsqlfy Prsn Name	35	PersonNameType	
Dsqlfy Prsn Mgr Name	35	PersonNameType	
Dsqlfy Prsn Appt Mgr Ctrl Expl Txt	9000	ExplanationType	
Prsn Rltd Dsqly Prsn Appt Mgr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prsn Rltd Dsqly Prsn Appt Mgr Expl Txt	9000	ExplanationType	
Prsn Rltd Dsqly Prsn Name Txt	35	PersonNameType	
Prsn Rltd Name Txt	35	PersonNameType	
Prsn Rltd Dsqly Prsn Rln Txt	100	LineExplanationType	
Prsn Rltd Dsqly Prsn Mgr Name	35	PersonNameType	
Prsn Rltd Dsqly Prsn Mgr Process Txt	9000	ExplanationType	
Dsqly Prsn Influence Opr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Dsqly Prsn Influence Opr Name Txt	35	PersonNameType	
Dsqly Prsn Influence Opr Expl Txt	9000	ExplanationType	
Dsqly Prsn Control Opr Expl Txt	9000	ExplanationType	
Sch E Church Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Pub Chrty Assets Below 5000 Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Appl Filed 90 Days Over 5000 Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Subordinate Group Exempt Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Appl Filed 27 Months Not Group Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Appl Filed 27 Months Adverse Ruling Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Org Created Prior Oct 9 1969 Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Req Extns Appl Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Req Extns Appl Reason Txt	9000	ExplanationType	
Req Exempt Start Pstmrk Dt Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Future Support Source Change Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank

Field Contents Description	Data Length	Data Type	Format
Proj Rev Data Total Ind	1	BooleanType	Y, N
Proj Rev Data Start Dt		DateType	
Proj Rev Data End Dt		DateType	
Proj Rev Total Contributions Amt	15	USAmountType	
Proj Rev Membership Dues Amt	15	USAmountType	
Proj Rev Gross Investment Income Amt	15	USAmountType	
Proj Rev Unrelated Business Income Amt	15	USAmountType	
Proj Rev Taxes Levied Amt	15	USAmountType	
Proj Rev Gov Services Value Amt	15	USAmountType	
Proj Rev Other Revenue Amt	15	USAmountType	
Proj Rev Other Revenue List Txt	9000	ExplanationType	
Proj Rev Total Income Amt	15	USAmountType	
Proj Rev Gross Receipts Amt	15	USAmountType	
Proj Rev Gross Receipts List Txt	9000	ExplanationType	
Proj Rev Total Income Receipts Amt	15	USAmountType	
Proj Rev Capital Assets Net Gain Loss Amt	15	USAmountType	
Proj Rev Capital Assets Net Gain Loss List Txt	9000	ExplanationType	
Proj Rev Unusual Grants Amt	15	USAmountType	
Proj Rev Total Revenue Amt	15	USAmountType	
Section 501C4 Request Ind	1	BooleanType	Y, N
Form 1024 Page 1 Att Ind	1	BooleanType	Y, N
Form 1024 Page 1 Img	1	BLOB	
Eldr Low Incm Hsng Desc Txt	9000	ExplanationType	
Eldr Low Incm Hsng Appl Att Ind	1	BooleanType	Y, N
Eldr Low Incm Hsng Appl Img		BLOB	
Eldr Low Incm Hsng Public Expl Txt	9000	ExplanationType	
Fclty Description Text	9000	ExplanationType	
Maximum Resident Count	15	IntegerNNType	
Current Resident Count	15	IntegerNNType	
Fclty Rent Purchase Desc Txt	100	LineExplanationType	
Residency Owner Contract Att Ind	1	BooleanType	Y, N
Residency Owner Contract Img		BLOB	
Eldr Low Incm Hsng Joint Venture Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Joint Venture Name	100	LineExplanationType	
Joint Venture Ownership Pct	5	DecimalType	
Joint Venture Investment Expl Txt	1000	ShortExplanationType	
Joint Venture Tax Status Expl Txt	1000	ShortExplanationType	
Joint Venture Activities Expl Txt	1000	ShortExplanationType	
Joint Venture Act Cntl Expl Txt	1000	ShortExplanationType	
Joint Venture Exempt Purp Expl Txt	1000	ShortExplanationType	
Joint Venture Agreement Att Ind	1	BooleanType	Y, N
Joint Venture Agreement Img		BLOB	
Fclty Developer Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fclty Developer Selection Expl Txt	9000	ExplanationType	

Field Contents Description	Data Length	Data Type	Format
Fclty Developer Contract Expl Txt	9000	ExplanationType	
Fclty Developer Fair Market Value Expl Txt	9000	ExplanationType	
Fclty Manage Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fclty Managed Others Desc Txt	9000	ExplanationType	
Fclty Manage Name Txt	35	BusinessNameLine1Type	
Fclty Manage Select Desc Txt	9000	ExplanationType	
Fclty Manage Contract Att Ind	1	BooleanType	Y, N
Fclty Manage Contract Img		BLOB	
Fclty Manage Negotiation Expl Txt	9000	ExplanationType	
Govt Housing Program Partcp Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Govt Housing Program Partcp Desc Txt	9000	ExplanationType	
Fclty Ownership Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fclty Enforceable Rights Desc Txt	9000	ExplanationType	
Fclty Acquire Desc Txt	9000	ExplanationType	
Fclty Acquire Docs Att Ind	1	BooleanType	Y, N
Fclty Acquire Docs Img		BLOB	
Fclty Lease Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fclty Lease Desc Txt	9000	ExplanationType	
Fclty Lease Att Ind	1	BooleanType	Y, N
Fclty Lease Img		BLOB	
Hsng Elderly Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Hsng Elderly Qlfy Desc Txt	9000	ExplanationType	
Hsng Elderly Select Desc Txt	9000	ExplanationType	
Hsng Handicapped Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Hsng Handicapped Qlfy Desc Txt	9000	ExplanationType	
Hsng Handicapped Select Desc Txt	9000	ExplanationType	
Entrance Fee Charged Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Entrance Fee Desc Txt	9000	ExplanationType	
Entrance Fee One Time Ind	1	BooleanType	Y, N
Entrance Fee Determ Desc Txt	9000	ExplanationType	
Entrance Fee Payment Method Txt	100	LineExplanationType	
Entrance Fee Refundable Ind	1	BooleanType	Y, N
Entrance Fee Waived Desc Txt	9000	ExplanationType	
Eldr Handicapped Maint Fee Charged Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Eldr Handicapped Maint Fee Desc Txt	9000	ExplanationType	
Eldr Handicapped Maint Fee Determ Txt	9000	ExplanationType	
Affordable Hsng Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank

Field Contents Description	Data Length	Data Type	Format
Affordable Hsng Community Name Txt	100	LineExplanationType	
Affordable Hsng Expl Txt	9000	ExplanationType	
Unable Pay Policy Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Unable Pay Policy Desc Txt	9000	ExplanationType	
Unable Pay Govt Arrngm Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Unable Pay Govt Arrngm Desc Txt	9000	ExplanationType	
Healthcare Arrngm Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Healthcare Arrngm Desc Txt	9000	ExplanationType	
Fclty Designed Res Needs Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Fclty Designed Res Needs Desc Txt	9000	ExplanationType	
Low Income Housing Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Low Incm Hsng Qlfy Desc Txt	9000	ExplanationType	
Low Incm Hsng Sel Desc Txt	9000	ExplanationType	
Low Incm Maint Fee Charged Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Low Incm Maint Fee Desc Txt	9000	ExplanationType	
Low Incm Maint Fee Determ Txt	9000	ExplanationType	
Low Incm Affordable Hsng Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Low Incm Affordable Hsng Expl Txt	9000	ExplanationType	
Low Incm Restrictions Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Low Incm Restrictions Desc Txt	9000	ExplanationType	
Low Incm Social Services Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Low Incm Social Services Desc Txt	9000	ExplanationType	
For Profit Org Successor Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
For Profit Org Successor Rln Txt	9000	ExplanationType	
For Profit Org Successor Expl Txt	9000	ExplanationType	
Other Org Successor Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Other Org Successor Rln Txt	9000	ExplanationType	
Predecessor Org Status	100	LineExplanationType	
Prev Org Exempt App Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prev Org Exempt App Rsltn Txt	9000	ExplanationType	
Prev Org Exemption Revoked Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Prev Org Exemption Revoked Expl Txt	9000	ExplanationType	
Successor Expl Txt	9000	ExplanationType	

Field Contents Description	Data Length	Data Type	Format
Predecessor Org Name 1 Txt	50	BusinessNameLine1Type	
Predecessor Org Name 2 Txt	50	BusinessNameLine2Type	
Predecessor Addr Line 1 Text	35	StreetAddressType	
Predecessor Addr Line 2 Text	35	StreetAddressType	
Predecessor City Name	22	CityType	
Predecessor State Code	2	StateType	
Predecessor ZIP Code	9	ZIPCodeType	
Predecessor Foreign Country Code	2	CountryType	
Predecessor Postal Code	50	TextType	
Predecessor EIN	9	EINType	
Predecessor Activity Desc Txt	9000	ExplanationType	
Predecessor Owner Name	13	PersonNameType	
Predecessor Owner Addr Line 1 Text	35	StreetAddressType	
Predecessor Owner Addr Line 2 Text	35	StreetAddressType	
Predecessor Owner City Name	22	CityType	
Predecessor Owner State Code	2	StateType	
Predecessor Owner ZIP Code	9	ZIPCodeType	
Predecessor Owner Foreign Country Code	2	CountryType	
Predecessor Owner Postal Code	50	TextType	
Predecessor Owner Share Int Expl Txt	100	LineExplanationType	
Predecessor Owner Rln Expl Txt	1000	ShortExplanationType	
Predecessor Owner Rln Code	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Predecessor Owner Agrmnt Att Ind	1	BooleanType	Y, N
Predecessor Owner Agrmnt Img		BLOB	
Predecessor Assets Trnsfr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Predecessor Asset Seq Num	4	IntegerPosType	
Predecessor Asset Desc Txt	100	LineExplanationType	
Predecessor Asset Value Amt	15	USAmountType	
Predecessor Asset Value Expl Txt	1000	ShortExplanationType	
Predecessor Asset Appraisal Att Ind	1	BooleanType	Y, N
Predecessor Asset Appraisal Img		BLOB	
Predecessor Asset Transfer Method Txt	100	LineExplanationType	
Predecessor Asset Rstr Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Predecessor Asset Rstr Expl Txt	9000	ExplanationType	
Asset Transfer Agrmt Att Ind	1	BooleanType	Y, N
Asset Transfer Agrmt Img		BLOB	
Liability Transfer Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Liability Seq Num	4	IntegerPosType	
Liability Desc Txt	100	LineExplanationType	
Liability Value Amt	15	USAmountType	
Liability Value Expl Txt	1000	ShortExplanationType	
Liability Owner Name Txt	35	PersonNameType	

Field Contents Description	Data Length	Data Type	Format
Rent From Predecessor Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Rent From Predecessor Agrmt Att Ind	1	BooleanType	Y, N
Rent From Predecessor Agrmt Img		BLOB	
Rent From Predecessor Expl Txt	9000	ExplanationType	
Rent To Predecessor Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Rent To Predecessor List Txt	9000	ExplanationType	
Rent To Predecessor Agrmt Att Ind	1	BooleanType	Y, N
Rent To Predecessor Agrmt Img		BLOB	
Rent To Predecessor Expl Txt	9000	ExplanationType	
Educational Grant Type Desc Txt	9000	ExplanationType	
Scholarship Purpose Amount Desc Txt	9000	ExplanationType	
Educational Loan Terms Expl Txt	9000	ExplanationType	
Publicity Desc Txt	9000	ExplanationType	
Solicitation Materials Att Ind	1	BooleanType	Y, N
Solicitation Materials Img		BLOB	
Sample Appl Att Ind	1	BooleanType	Y, N
Sample Appl Img		BLOB	
Maintain Case History Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Maintain Case History Expl Txt	9000	ExplanationType	
Eligible Criteria Desc Txt	9000	ExplanationType	
Recipient Selection Criteria Txt	9000	ExplanationType	
Grant Number Determination Expl Txt	9000	ExplanationType	
Grant Amount Determination Expl Txt	9000	ExplanationType	
Recipient Requirement Desc Txt	9000	ExplanationType	
Supervising Procedures Desc Txt	9000	ExplanationType	
Selection Committee Desc Txt	9000	ExplanationType	
Relatives Eligible Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Relatives Eligible Expl Txt	9000	ExplanationType	
Grant Making Proc Advnc Apprvl Req Cd	1	TextType	1 (Yes), 2 (No), 3 (N/A), 6 (both yes & no), blank
Section 4945G1 Ind	1	BooleanType	Y, N
Section 4945G3 Ind	1	BooleanType	Y, N
Annual Review Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Maintain Records Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Employee Status Scholarship Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Rev Proc Compliance Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank

Field Contents Description	Data Length	Data Type	Format
Employee Sch Cd	1	TextType	1 (Yes), 2 (No), 3 (N/A), 6 (both yes & no), blank
Employee Sch Ten Prcnt Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Employee Children Sch Cd	1	TextType	1 (Yes), 2 (No), 3 (N/A), 6 (both yes & no), blank
Employee Children Sch 25 Prcnt Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Employee Sch Less Ten Prcnt Cd	1	TextType	1 (Yes), 2 (No), 3 (N/A), 6 (both yes & no), blank
Employee Sch Eligibility Desc Txt	9000	ExplanationType	
Employee Sch Not Comp Cd	1	TextType	1 (Yes), 2 (No), 6 (both), blank
Employee Sch Not Comp Desc Txt	9000	ExplanationType	

5.2   Communication Methods

The TEDS Cyber Assistant user will print the completed 1023 application and then mail the complete 1023 packet, through postal mail services, to the application to the IRS Cincinnati Submission Processing Center (CSPC).

5.3   Protocols

N/A

5.4   Performance Considerations

Performance considerations for the interface are external to the TEDS Cyber Assistant and the TEDS application. The interface transmission method is via postal services, so performance (i.e. delivery of mailed 1023 submission) is based upon the various methods and payments used to send a submission through the mail. Another performance considerations, is the throughput and quantity of 1023 submissions that can be scanned and process by TEDS Receipt and Handling.

5.5   Security Considerations

N/A

5.6   Privacy Considerations

N/A

Section 6.   Interface Processing

This section is added to the ICD as the interface design is developed by the responsible parties. Include an illustration of the entire interface, explanations of how the interface is initiated, its functionality, the business rules governing the interface, the controls over the process, the manner in which processing errors are handled, and how specific security and privacy measures have been implemented.

6.1   Interface Processing Diagram

Provide a diagram illustrating the interfacing system components as well as all intermediate system components, databases, platforms, and flows constituting the interface. Annotate protocols and other technical details as appropriate and meaningful.

6.2   Process Initiation

Describe how and when the interface is triggered to begin processing. This may include enumeration of specific events, necessary conditions, timing, schedules, or other types of triggering mechanisms, as appropriate.

6.3   Process Functionality

Provide a high-level narrative description of interface process functionality. The description should cover all processing from the time of interface initiation to successful completion.

6.4   Business Rules

Describe specific rules that may constrain or direct the manner in which processing occurs. If these rules are voluminous, they may be referenced from an appropriate model view or rules management tool.

6.5   Interface Controls

Identify and enumerate the types of controls necessary to ensure the integrity of the interface process. This may include, for example, controls to ensure that all files or databases have been successfully updated, that all data items have been accounted for, or that any hash totals balance, etc.

6.6   Error Handling

Specify the types of error checking that the interface should perform. In each case, describe what types of errors will be checked for; how an error will be detected; what actions will be taken to correct the error; and what, if any, kind of escalation may be required.

6.7   Security Measures

Describe how the interface implements applicable security measures. This is not a recapitulation of the previously described security considerations but a description of how the interface design implements those considerations.

6.8   Privacy Measures

Describe how the interface implements applicable privacy measures. This is not a recapitulation of the previously described privacy considerations but a description of how the interface design implements those considerations.

Section 7.   Data Mapping

Data mapping occurs during the PDF rendering process with in Cyber Assistant. Cyber Assistant will render the 1023 application in the format that TEDS requires. *Refer to section 2.4 for a detailed explanation of this process.*

7.1   Interfacing Data Assemblies

Identify and describe in detail all data assemblies that must interface with the boundary data assemblies. These are assemblies not in the agreed-on interface format (see Section 5). The assemblies described may include tables, records, messages, files, arrays, displays, or other forms of data.

For each data assembly, provide the following information:

- *Unique identifier of the assembly*

- *Assembly name*

- *Unique identifiers of each individual data element contained in the assembly presented in an order reflective of the actual structure or grouping*

- *Medium (e.g., disk) containing the assembly*

- *Relationship or order of assemblies (e.g., sort criteria)*

7.2   Interfacing Data Elements

Identify and describe in detail all data elements that must interface with the boundary data elements. Each element referenced in a data assembly must be included, as well as any additional elements that may not be covered in an assembly. For each data element, provide the following information:

- *Unique identifier of the data element*

- *Data element name*

- *Data type (alphanumeric, integer, etc.)*

- *Size and exact format*

- *Unit of measure (if appropriate)*

- *Range or enumeration of values*

- *Default value (if any)*

- *Validation requirement(s)*

- *Constraints or rules*

7.3   Data Mapping Matrix

Provide a detailed guide that indicates how to perform all data translations required by the interface. A matrix, table, or other convenient format similar to the one below may be used for this purpose.

Component 1 Data		Component 2 Data		Mapping	
Assembly	Element	Assembly	Element	Translation	Validation

Section 8.   Issues

The remaining issue to be worked out during design and development, has to do with the bar coding implementation. The preferred method to both the TEDS and TEDS Cyber Assistant teams is to place a two dimensional PDF417 bar code at the bottom of each form page with an XML representation of the line item number and user data input. While two dimensional bar codes have been chosen for their ability to hold much larger amounts of data in the same dimensions as the one dimensional bar codes, there is, however, a limited amount of room at the bottom of each 1023 form page. So, a determination in the future may be made that it is infeasible to place the bar code at the bottom of each form page, and that another mechanism for scanning form data from the 1023 submission must be designed.

Glossary

Include a glossary of terms.

Word/Phrase

Abbreviations and Acronyms

List all abbreviations and acronyms used or referred to by the document.

ASCII	American Standard Code for Information Interchange
BAA	Business Area Architecture
BSAR	Business System Architecture Report
BSRR	Business System Requirements Report
CIV	CSC Civil Group
DID	Data Item Description
EA	Enterprise Architecture
EBCDIC	Extended Binary Coded Decimal
ELC	Enterprise Life Cycle
ICD	Interface Control Document
IRS	Internal Revenue Service
ISA	Interconnection Security Agreement
ISO	International Standards Organization
LADR	Logical Application Design Report
MS	Microsoft
OSI	Open Systems Interconnection
RA	Release Architecture
SAR	System Architecture
Tar	tape archive retrieval
XBA	Accelerated Business Area Architecture